



Attorney Docket No.: YOR919990588US3

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant(s): Bolle et al.
Docket No: YOR919990588US3
Serial No.: 10/653,804
Filing Date: September 3, 2003
Group: 2623
Examiner: Mehrdad Dastouri

Title: System and Method for Distortion Characterization in Fingerprint and Palm-Print Image Sequences and Using this Distortion as a Behavioral Biometrics

I hereby certify that this paper is being deposited on this date with the U.S. Postal Service as first class mail addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Signature: Date: November 17, 2005

SUBMISSION OF NON-PATENT REFERENCES
CITED IN AN INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Examiner's request in an Office Action dated May 24, 2005, Applicants submit herewith copies of non-patent literatures indicated in the Information Disclosure Statement filed September 3, 2003(copy enclosed) in the above-referenced application.

In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or the credit **International Business Machines Corporation's Deposit Account No. 50-0510** as required to correct the error.

Respectfully submitted,

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Fairfield, CT 06824
(203) 255-6560

Date: November 17, 2005



Attorney Docket No.: YOR919990588US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Rudolf Maarten Bolle
Chitra Dorai
Nalini K. Ratha

Docket No.: YOR919990588US2

Serial No.: Unassigned

Filing Date: Concurrently Herewith

Title: **SYSTEM AND METHOD FOR DISTORTION CHARACTERIZATION IN FINGERPRINT AND PALM-PRINT IMAGE SEQUENCES AND USING THIS DISTORTION AS A BEHAVIORAL BIOMETRICS**

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following document(s) listed on the accompanying PTO Form 1449. Copies of non-patent documents can be provided upon Examiner's request.

U.S. Patent Documents

1. U.S. Patent No. 5,933,515
2. U.S. Patent No. 6,323,846
3. U.S. Patent No. 6,388,657
4. U.S. Patent No. 6,466,686
5. U.S. Patent No. 6,487,306

Other Documents

6. Bergen et al., "Hierarchical Model-Based Motion Estimation," pgs. 237, 251 (May 1992).
7. Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999).

8. Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997).
9. Nalwa, V.S., "Automatic On-Line Signature Verification," Proceedings of the IEEE, Vol. 85, No. 2, pgs. 215-239 (February 1997).
10. Ratha et al., "Adaptive Flow Orientation-Based Feature Extraction in Fingerprint Images," Pattern Recognition, Vol. 28, No. 11, pgs. 1657-1672 (1995).
11. Ratha et al., "A Real-Time Matching System for Large Fingerprint Database," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 8, pgs. 799-813 (1996).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability or that no other material information exists.

Respectfully submitted,


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Date: September 3, 2003

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Applicant: Rudolf Maarten Bolle
 Chitra Dorai
 Nalini K. Ratha
 Docket No.: YOR919990588US2
 Serial No.: Unassigned
 Filing Date: Concurrently Herewith
 Group: Unassigned

**LIST OF PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT**

U.S. PATENT DOCUMENTS

| EXAMINER <u>INITIAL</u> | DOCUMENT NO. | DATE | NAME | CLASS/SUBCLASS | FILING DATE <u>IF APPROPRIATE</u> |
|----------------------------|--------------|----------|------------------------|----------------|--------------------------------------|
| _____ | 5,933,515 | 08/03/99 | Pu et al. | | |
| _____ | 6,323,846 | 11/01 | Westerman et al. | 345/173 | |
| _____ | 6,388,657 | 05/02 | Natoli et al. | 345/168 | |
| _____ | 6,466,686 | 10/02 | Senior, Andrew William | 382/124 | |
| _____ | 6,487,306 | 11/02 | Jain et al. | 382/125 | |

FOREIGN PATENT DOCUMENTS

| EXAMINER <u>INITIAL</u> | DOCUMENT NO. | DATE | COUNTRY | CLASS/SUBCLASS | TRANSLATION <u>YES</u> <u>NO</u> |
|----------------------------|--------------|------|---------|----------------|-------------------------------------|
| _____ | | | | | |

OTHER DOCUMENTS

| EXAMINER <u>INITIAL</u> | REF NO. | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|----------------------------|---------|---|
| _____ | | Bergen et al., "Hierarchical Model-Based Motion Estimation," pgs. 237, 251 (May 1992). |
| _____ | | Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999). |
| _____ | | Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997). |
| _____ | | Nalwa, V.S., "Automatic On-Line Signature Verification," Proceedings of the IEEE, Vol. 85, No. 2, pgs. 215-239 (February 1997). |
| _____ | | Ratha et al., "Adaptive Flow Orientation-Based Feature Extraction in Fingerprint Images," Pattern Recognition, Vol. 28, No. 11, pgs. 1657-1672 (1995). |
| _____ | | Ratha et al., "A Real-Time Matching System for Large Fingerprint Database," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 8, pgs. 799-813 (1996). |

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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